

CLAIMS

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1. A method comprises the steps of pumping a chemical composition into a production interval and into surrounding formation ; said composition being capable of forming, firstly, a physically stabilized structure and, secondly, a chemically stabilized structure, wherein said physically stabilized structure being dissolvable by hydrocarbon containing fluids; letting said composition form said physically stabilized structure within the formation surrounding said production interval;; changing pressure condition in said production interval such that the fluid flow within the surrounding formation is reversed; letting thereby in some portions of the formation hydrocarbon containing fluids dissolve said physically stabilized structure and chemically stabilize said structure in the remaining portions by a cross-linking reaction.
2. The method of claim 1, wherein the time required to form the physically stabilized structure after injection is significantly shorter than the time required to form a chemically stabilized structure.
3. The method of claim 1, wherein the time required to form the physically stabilized structure is less than 24 hours after injection.
4. The method of claim 1, wherein the time required to form the chemically stabilized structure is more than 24 hours after injection.
5. The method of claim 1, wherein the composition comprises hydrophobically modified water-soluble polymers, surfactants, viscoelastic surfactants, or mixtures thereof.
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